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L5	1569	(proximit$5) and (gps with location$3 with (service$5 device$5 pda palm palmtop$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:21
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L7	753	(palm$5 pda mobile$5 local$3 cellular$5 client$3) with (proximit$5) with (service$3 goods)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:24
L8	43	6 and (1 3 4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:25

L9	19	7 and (1 3 4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:25
L10	10	7 and (1 3 4) and @ad<"20010928"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:25
S1	2	("6782253").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 16:35
S2	2	("20030065710").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 19:14
S3	2	("6782253").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 16:35
S4	1	S3 and (location$5 gps)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 19:24
S5	1561	(proximit$5) and (gps with location$3 with (service$5 device$5 pda palm palmtop$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/06 14:21
S6	16	(proximit$5) and (gps with location$3 with (director$5 database$5) with (id identificat$5 identit$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 17:36

S7	1291	(identificat$5 id identity) near3 (position$3 location$5 geographic$5) same proximit$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 17:38
S8	72	(identificat$5 id identity) near3 (position$3 location$5 geographic$5) same proximit$6 same (service$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 17:38
S9	15	(identificat$5 id identity) near3 (position$3 location$5 geographic$5) with proximit$6 with (service$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 17:38
S10	10	S9 and @ad<"20010928"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 18:49
S12	111	beacon$3 adj3 defin$5 and "455"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 18:54
S15	2	("20030065710").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 19:14
S21	35	beacon$3 near4 (location$3 adj3 (id identity identificat$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/30 19:40

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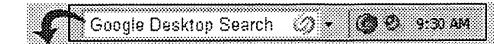Similar pages

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1 <u>Location-aware mobile applications based on directory services</u>
Henning Maass
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: 📄 <u>pdf(421.47 KB)</u>   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the l ...

2 <u>Location-aware mobile applications based on directory services</u>
◆ Henning Maaß
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: 📄 <u>pdf(1.59 MB)</u>   Additional Information: <u>full citation, references, citings, index terms</u>

Keywords: LDAP, X.500, adaptive applications, directory services, distributed systems, locating systems, location-aware applications, middleware, mobile computing, software architectures, wireless multimedia networks

3 <u>A scalable location service for geographic ad hoc routing</u>
◆ Jinyang Li, John Jannotti, Douglas S. J. De Couto, David R. Karger, Robert Morris
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**
Publisher: ACM Press

Full text available: 📄 <u>pdf(1.28 MB)</u>   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

GLS is a new distributed location service which tracks mobile node locations. GLS combined with geographic forwarding allows the construction of ad hoc mobile networks that scale to a larger number of nodes than possible with previous work. GLS is decentralized and runs on the mobile nodes themselves, requiring no fixed infrastructure. Each mobile node periodically updates a small set of other nodes (its location servers)

with its current location. A node sends its position updates to its I ...

4 Location update and routing scheme for a mobile computing environment

Anna Hać, Yujing Huang

July 2000 **International Journal of Network Management**, Volume 10 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(332.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new hierarchical location update and routing scheme for a wide area mobile computing environment with scalability of network hierarchy. Our scheme provides nearly optimal routing for most communication bypassing the mobile host's home network and home agent. We use simulation to compare our scheme with other schemes in both non‐hierarchical and hierarchical network architectures. Copyright © 2000 John Wiley & Sons, Ltd.

5 Supporting personal mobility for nomadic computing over the internet

Yalun Li, Victor C. M. Leung

April 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings

This paper presents a new paradigm for nomadic computing over the Internet called universal personal computing (UPC), where mobile users can access computing resources, network services, and personalized computing environments anywhere using any available terminals. The concept of UPC and system design issues are discussed, and the required system architecture capable of managing different mobile objects, i.e., users and terminals, in the UPC environment is presented. Modifications of connection ...

6 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(5.33 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

7 Agents2Go: an infrastructure for location-dependent service discovery in the mobile electronic commerce environment

Olga Ratsimor, Vladimir Korolev, Anupam Joshi, Timothy Finin

July 2001 **Proceedings of the 1st international workshop on Mobile commerce**

Publisher: ACM Press

Full text available: pdf(577.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

In recent years, the growth of Electronic Commerce and Mobile Computing has created a new concept of Mobile Electronic Commerce. In this paper we describe the Agents2Go System that attempts to solve problems related to location dependence that arise in a Mobile Electronic Commerce environment. Agents2Go is a distributed system that provides mobile users with the ability to obtain location dependent services and information. Our system also automatically obtains a user's current geographical I ...

Keywords: access, agents, context dependent, location dependent, mobile information, service discovery

8 Database and location management schemes for mobile communications

Anna Hać, Bo Liu

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Publisher: IEEE Press

Full text available: pdf(264.51 KB)   Additional Information: full citation, references, index terms

Keywords: GSM, broadcast, cost, mobility management, partition, routing, switching

9 Papers: Cellular IP: a new approach to Internet host mobility

András G. Valkó

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environm ...

10 Mobile UNITY: reasoning and specification in mobile computing

Gruia-Catalin Roman, Peter J. McCann, Jerome Y. Plun

July 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(406.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile computing represents a major point of departure from the traditional distributed-computing paradigm. The potentially very large number of independent computing units, a decoupled computing style, frequent disconnections, continuous position changes, and the location-dependent nature of the behavior and communication patterns present designers with unprecedented challenges in the areas of modularity and dependability. So far, the literature on mobile computing is dominated by concerns ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

11 Dynamic hierarchical database architecture for location management in PCS networks

Joseph S. M. Ho, Ian F. Akyildiz

October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5

Publisher: IEEE Press

Full text available: pdf(292.92 KB)   Additional Information: full citation, references, citings, index terms

Keywords: call delivery, directory register, home location register, location registeration, visitor location register

12 A distributed control strategy for wireless ATM networks

M. Veeraraghavan, T. F. La Porta, R. Ramjee

August 1995 **Wireless Networks,** Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(609.14 KB)   Additional Information: full citation, abstract, references, citings

Cellular networks are expected to be upgraded to offer Personal Communication Services (PCS). The mobility management and wireless call control approach used in cellular networks are currently being proposed for use in PCS networks. Recent work indicates that both the signaling load and database update rates caused by these mobility management and call control procedures will increase significantly in next generation PCS networks. In this paper, we propose and analyze a new cluster-based ar ...

13 A new multicasting-based architecture for Internet host mobility

Jayanth Mysore, Vaduvur Bharghavan

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(2.08 MB)   Additional Information: full citation, references, citings, index terms

14 Global internet roaming with ROAMIP

Zoltán R. Turányi, Csanád Szabó, Eszter Kail

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.19 MB)   Additional Information: full citation, abstract, index terms

Reachability and session continuity represent two distinct services that global mobility protocols should provide. Reachability is the possibility for Internet hosts to initiate sessions to mobile users. Session continuity refers to mechanisms that ensure that active transport or application layer sessions are not broken due to mobility. We present ROAMIP, a global mobility architecture that uses application layer solutions for global reachability and reuses transparent Mobile IP tunnelling mech ...

15 Interworking between Digital European Cordless Telecommunications and a distributed packet switch

Sudarshan Rao, David J. Goodman, Gregory P. Pollini, Kathleen S. Meier-Hellstern

February 1995 **Wireless Networks,** Volume 1 Issue 1
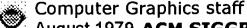
Publisher: Kluwer Academic Publishers

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Digital European Cordless Telecommunications (DECT) standard specifies an air interface. DECT requires an external infrastructure to transfer information between wireless terminals, and to transfer information between a wireless terminal and a fixed network. The Public Switched Telephone Network, the GSM Cellular Network, Private Branch Exchanges and mobile data networks are all under investigation as DECT backbone networks. In this paper we look to the future and describe interworking ...

16 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics,** Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(15.01 MB)   Additional Information: full citation, references, citings

17 Language and distributed system support for complex organizational services

Alexander Schill, Ashok Malhotra

October 1991 **ACM SIGOIS Bulletin , Conference proceedings on Organizational**

computing systems COCS '91, Volume 12 Issue 2-3

Publisher: ACM Press

Full text available: pdf(1.24 MB)   Additional Information: full citation, references, citings, index terms

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18 Active tracking: locating mobile users in personal communication service networks

Hanoch Levy, Zohar Naor

December 1999 **Wireless Networks**, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(168.18 KB)   Additional Information: full citation, references, citings, index terms

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19 A cost effective distributed location management strategy for wireless networks

Kuochen Wang, Jung Huey

July 1999 **Wireless Networks**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(190.47 KB)   Additional Information: full citation, abstract, references, index terms

The mobility feature of mobile stations (MSs) imposes a large burden on network traffic control as a result of location management. Design issues of location management include MS registration (updating) and call set-up (paging). Previous approaches introduced several network topologies for updating and paging procedures, but most of them focused on a single problem: either updating optimization or paging optimization. In this paper, we design and integrate two mechanisms, distributed tempo ...

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20 Multicast support for mobile hosts using mobile IP: design issues and proposed architecture

Vineet Chikarmane, Carey L. Williamson, Richard B. Bunt, Wayne L. Mackrell

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(268.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we consider the problem of providing multicast to mobile hosts using Mobile IP for network routing support. Providing multicast in an internetwork with mobile hosts is made difficult because many multicast protocols are inefficient when faced with frequent membership or location changes. This basic difficulty can be handled in a number of ways, but three main problems emerge with most solutions. The tunnel convergence problem, the duplication problem, and the scoping problem ...

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1   Realms and states: a framework for location aware mobile computing ▩
Ajith K. Narayanan
July 2001 **Proceedings of the 1st international workshop on Mobile commerce**
Publisher: ACM Press

Full text available: 📄 pdf(548.46 KB)   Additional Information: full citation, abstract, references, citings, index terms

Location awareness is an important part of context-aware mobile computing. We present the idea of logical location contexts which provides enhanced privacy and supports specialized notions of distance, and offers a paradigm that unifies location with other types of context. This is developed in the form of a framework consisting of realms, which are collections of spatial states, with realm-maps providing mappings between realms. The lowest realm relies on raw (physical) location. Multiple ar ...

Keywords: context aware, context service, location aware, location privacy, location service, mobile computing, realms

2   An approach to providing a seamless end-user experience for location-aware applications ▬
Sastry Duri, Alan Cole, Jonathan Munson, Jim Christensen
July 2001 **Proceedings of the 1st international workshop on Mobile commerce**
Publisher: ACM Press

Full text available: 📄 pdf(515.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

With an increasing number of businesses considering the possibility of launching location-aware, mobile commerce applications, the quality of the end-user experience will become more and more critical. We propose *dynamic bookmarks* and *location domains* as mechanisms to give consumers simple and straightforward access to a dynamically changing set of location-based services. Dynamic bookmarks are descriptions of services, which are bound to actual, registered, services as a user's ...

Keywords: dynamic bookmark, location domain, location-aware applications, location-based services, mobile commerce, mobile computing

3   Location-aware mobile applications based on directory services ▬
Henning Maass
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(421.47 KB)   Additional Information: full citation, abstract, references, citings, index terms

Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the l ...

4 Charting past, present, and future research in ubiquitous computing

Gregory D. Abowd, Elizabeth D. Mynatt

March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(730.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

The proliferation of computing into the physical world promises more than the ubiquitous availability of computing infrastructure; it suggest new paradigms of interaction inspired by constant access to information and computational capabilities. For the past decade, application-driven research on abiquitous computing (ubicomp) has pushed three interaction themes:natural interfaces, context-aware applications,andautomated capture and access. To chart a cours ...

Keywords: augmented reality, capture and access, context-aware applications, evaluation, everyday computing, natural interfaces, social implications, ubiquitous computing, user interfaces

5 Software engineering issues for ubiquitous computing

Gregory D. Abowd

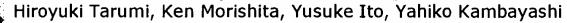May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

Keywords: automated capture, component integration, context-aware computing, software structure, toolkit design, transparent interfaces, ubiquitous computing

6 Communication through virtual active objects overlaid onto the real world

Hiroyuki Tarumi, Ken Morishita, Yusuke Ito, Yahiko Kambayashi

September 2000 **Proceedings of the third international conference on Collaborative virtual environments**

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, references, citings, index terms

Keywords: CVE architecture, augmented reality, autonomous agents, community computing, mobile systems, overlaid virtual systems, virtual pets

7 A product location framework for mobile commerce environment

Karlene Cousins, Upkar Varshney

July 2001 **Proceedings of the 1st international workshop on Mobile commerce**

Publisher: ACM Press

Full text available: pdf(372.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recent advances in wireless networking, mobile technologies, and applications have led to the emergence of mobile commerce. As many of these applications require location tracking of products, users, and services, support for location management has become a major issue in m-commerce. Although some progress has been made in adding location support in business to consumer (B2C) m-commerce, very little work has been done towards addressing these issues in the business to business (B2B) environm ...

Keywords: B2B framework, location management, mobile commerce, wireless networking

8 Location based services in a wireless WAN using cellular digital packet data (CDPD)

Rittwik Jana, Theodore Johnson, S. Muthukrishnan, Andrea Vitaletti
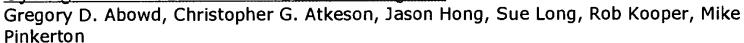May 2001 **Proceedings of the 2nd ACM international workshop on Data engineering for wireless and mobile access**
Publisher: ACM Press

Full text available: pdf(394.15 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper shows how a standard mobile data technology, Cellular Digital Packet Data (CDPD), can be used to localize mobile data users, and provide location based services. We present a location determination system that is handset-based. Using CDPD and modem protocols, this system extracts the location of the users up to the cell site coverage in the network; it also exposes this location information to the application layer. We have implemented a prototype of the entire system; it works nat ...

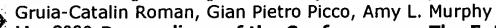**9** Cyberguide: a mobile context-aware tour guide

Gregory D. Abowd, Christopher G. Atkeson, Jason Hong, Sue Long, Rob Kooper, Mike Pinkerton
October 1997 **Wireless Networks**, Volume 3 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(596.81 KB)   Additional Information: full citation, abstract, references, citings, index terms

Future computing environments will free the user from the constraints of the desktop. Applications for a mobile environment should take advantage of contextual information, such as position, to offer greater services to the user. In this paper, we present the Cyberguide project, in which we are building prototypes of a mobile context-aware tour guide. Knowledge of the user's current location, as well as a history of past locations, are used to provide more of the kind of services that we co ...

10 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy
May 2000 **Proceedings of the Conference on The Future of Software Engineering**
Publisher: ACM Press

Full text available: pdf(2.07 MB)   Additional Information: full citation, references, citings, index terms

11 Vision impairment and related assistive technologies: Adaptive tools for the elderly: new devices to cope with age-induced cognitive disabilities

Joaquim A Jorge
May 2001 **Proceedings of the 2001 EC/NSF workshop on Universal accessibility of ubiquitous computing: providing for the elderly**
Publisher: ACM Press

Full text available: pdf(567.94 KB)   Additional Information: full citation, abstract, references, index terms

We look at the issues and methodologies needed to develop, deploy, and evaluate situation-aware mobile computing devices that adapt to the needs of elder users based on observed or predicted user behavior and needs. This paper discusses how pervasive computing can help the aging population live independently for as long as possible. We

believe that successfully applying technology to this problem will require careful studies of how the target population actually lives and what their actual needs ...

Keywords: HCI, age-induced cognitive disabilities, mobile assistants, ubiquitous computing

12 A mobile virtual-distributed system architecture for supporting wireless mobile computing and communications
George Liu, Alexander Marlevi, Gerald Q. Maguire
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
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Full text available: pdf(876.34 KB)   Additional Information: full citation, references, citings, index terms

13 Agents2Go: an infrastructure for location-dependent service discovery in the mobile electronic commerce environment
Olga Ratsimor, Vladimir Korolev, Anupam Joshi, Timothy Finin
July 2001 **Proceedings of the 1st international workshop on Mobile commerce**
Publisher: ACM Press
Full text available: pdf(577.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

In recent years, the growth of Electronic Commerce and Mobile Computing has created a new concept of Mobile Electronic Commerce. In this paper we describe the Agents2Go System that attempts to solve problems related to location dependence that arise in a Mobile Electronic Commerce environment. Agents2Go is a distributed system that provides mobile users with the ability to obtain location dependent services and information. Our system also automatically obtains a user's current geographical l ...

Keywords: access, agents, context dependent, location dependent, mobile information, service discovery

14 Multi-sensor location tracking
Ulf Leonhardt, Jeff Magee
October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(1.20 MB)   Additional Information: full citation, references, citings, index terms

Keywords: location service, location tracking, open distributed systems, sensor fusion

15 A service framework for carrier grade multimedia services using PARPLAY APIs over a SIP system
Rudolf Pailer, Johannes Stadler
July 2001 **Proceedings of the first workshop on Wireless mobile internet**
Publisher: ACM Press
Full text available: pdf(713.19 KB)   Additional Information: full citation, abstract, references, index terms

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network,

mobile radio and the Internet. Offering those value-added s ...

Keywords: SIR-PARLAY mapping, caller preferences, carrier grade services, network-independent services, service platform

16 Rapid prototyping of mobile context-aware applications: the Cyberguide case study
Sue Long, Rob Kooper, Gregory D. Abowd, Christopher G. Atkeson
November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(1.22 MB)   Additional Information: full citation, references, citings, index terms

17 Mobile-awareness: designing for mobile interactive systems
April 2001 **ACM SIGGROUP Bulletin**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: pdf(776.08 KB)   Additional Information: full citation, references, index terms, review

18 Exploiting location information for infostation-based hoarding
Uwe Kubach, Kurt Rothermel
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(586.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

With the increasing popularity of mobile computing devices, the need to access information in mobile environments has grown rapidly. Since the information has to be accessed over wireless networks, mobile information systems often have to deal with problems like low bandwidth, high delay, and frequent disconnections. Information hoarding is a method that tries to overcome these problems by transferring information, which the user will probably need, in advance. The hoarding mechanism that we ...

19 GPS-based geographic addressing, routing, and resource discovery
Tomasz Imieliński, Julio C. Navas
April 1999 **Communications of the ACM**, Volume 42 Issue 4
Publisher: ACM Press
Full text available: pdf(329.24 KB)   Additional Information: full citation, references, citings, index terms,
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20 NETMAN: the design of a collaborative wearable computer system
Gerd Kortuem, Martin Bauer, Zary Segall
March 1999 **Mobile Networks and Applications**, Volume 4 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(551.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents a wearable groupware system designed to enhance the communication and cooperation of highly mobile network technicians. It provides technicians in the field with the capabilities for real-time audio-conferencing, transmission of video images back to the office, and context-sensitive access to a shared notebook. An infrared location-tracking device allows for the automatic retrieval of notebook entries depending on the user's current location.

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